

# Unipren® Elastomers A3 PRTA010 45A UP304

Styrene Ethylene Butylene Styrene Block Copolymer

Petropol Industry and Trade of Polymers LTDA

## Message:

Composite thermoplastic polymer based SEBS styrenic block with excellent resistance to ozone and ultra-violet, high mechanical and chemical properties. The touch of rubber is ideal for parts that have contact with humans as toys, tools and household utensils. All this combined with the behavior of plastics during processing.

General Information			
Features	Good Chemical Resistance		
	Good UV Resistance		
	Ozone Resistant		
Uses	Household Goods		
	Power/Other Tools		
	Toys		
Resin ID (ISO 1043)	>TPE<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	2.0 to 3.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	42 to 48		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup>			ASTM D412
100% Strain	1.50	MPa	
300% Strain	2.50	MPa	
Tensile Strength <sup>2</sup> (Break)	3.50	MPa	ASTM D412
Tensile Elongation <sup>3</sup> (Break)	600	%	ASTM D412
Tear Strength <sup>4</sup>	25.0	kN/m	ASTM D624
Compression Set (70°C, 22 hr)	58	%	ASTM D395B
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	180 to 200	°C	
Mold Temperature	25.0 to 50.0	°C	
NOTE			
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